

Climatological Data for June, 1910.
DISTRICT No. 7, LOWER MISSISSIPPI VALLEY.

ISAAC M. CLINE, District Editor.

GENERAL SUMMARY.

Temperature conditions were generally mild at the opening of the month, but on the 2d a warm wave overspread the district giving temperatures of 100° , or higher, in many localities. From the 3d to the 13th moderate temperatures prevailed. On the 14th another period of abnormally high temperature began, which continued until the 24th, during which time the temperatures were above 100° every day in many localities. From the 25th to the close of the month, the temperature conditions were generally moderate.

Precipitation was entirely in the form of rain. The periods of precipitation were not well defined, but, generally speaking, there were two, from the 1st to 12th and from the 19th to 30th. Taken as a whole, the precipitation was well distributed, and sufficient for agricultural needs, except in parts of New Mexico, Kansas, and Oklahoma, where rain was badly needed in many localities at the close of the month. In some localities in the eastern portion of the district, there was too much rain, which materially interfered with outdoor work.

TEMPERATURE.

Mean temperatures for the month were above the normal generally over Oklahoma and the Colorado, New Mexico, and Texas areas, and at a few stations in Kansas and Louisiana; elsewhere there was a deficiency. The greatest excess in temperature, more than 3° , occurred over the Texas Panhandle; elsewhere the excess was generally less than 2° . Over those portions of the district where the temperature was below normal, the deficiency did not exceed 4° , and was generally less than 2° . The maximum temperature reached, or exceeded, 95° at some stations in all parts of the district, the highest recorded being 111° at Erick, Okla., on the 2d, and at Hereford, Tex., on the 8th. A temperature of 110° was reached at Hoehne, Colo., on the 17th. Except in Mississippi and Louisiana, the lowest temperatures in the several States or parts of States were generally below 50° , and in the mountainous portions of the Colorado and New Mexico areas were generally below 30° . The lowest temperature recorded was 24° , at Elizabethtown, N. Mex., and 25° was recorded at Lake Moraine, Colo.

Monthly mean temperatures and departures from the normal, for the various States and parts of States, are reported as follows: Colorado area, 64.9° , $+1.8^{\circ}$; New Mexico area, 69.7° , $+0.1^{\circ}$; Texas area, 76.8° , $+1.5^{\circ}$; Kansas area, 73.1° , -0.6° ; Oklahoma, 76.5° , $+0.5^{\circ}$; Missouri area, 70.4° , -2.8° ; Tennessee area, 72.9° , -3.5° ; Arkansas, 74.1° , -2.5° ; Mississippi area, 75.5° , -2.9° ; Louisiana, 78.1° , -1.5° .

PRECIPITATION BY DRAINAGE AREAS.

Arkansas River and tributaries.—Over the headwaters of the Arkansas, in Colorado, the precipitation was unevenly distributed and was generally light; the average from 28 stations being 0.78 inch, about half the normal amount. The precipitation was very light over those stretches of the Arkansas proper that lie in Kansas and Oklahoma; the average from 41 stations being 1.62 inch, and the average deficiency about 2.9 inches. More than the normal precipitation occurred at a few stations in the Cimarron Valley, but generally there was a marked deficiency; the average from 21 stations being 2.06 inches, 1.46 inch below the normal. The precipitation was light throughout the Canadian Basin. A few scattered stations in New Mexico reported an excess, but over those stretches of the basin that lie in Texas and Oklahoma the deficiency was general; the average from 62 stations being 1.33 inch, about 1.8 inch below the normal. The precipitation was exceptionally light over the Verdigris Basin; the average from 9 stations

being 1.97 inch, about 3.5 inches below the normal. The precipitation was heavy over the headwaters of the Neosho in Missouri, but was generally light throughout that portion of the valley that lies in Kansas, the average from 16 stations being 2.95 inches, about 2.3 inches below the normal. Heavier precipitation occurred generally over that portion of the Arkansas Basin below the Oklahoma-Arkansas line; the average from 16 stations being 5.06 inches, about 0.5 inch above the normal.

Red River and tributaries.—Less than the normal amount of precipitation occurred over those stretches of the Red River Basin that lie in New Mexico, Texas, and Oklahoma; the average from 42 stations being 1.53 inch, about 2.3 inches below the normal. Over those portions of the basin that lie in Arkansas and Louisiana, the precipitation was generally heavy; the average from 18 stations being 4.91 inches, about 1.1 inch above the normal.

Mississippi south of St. Louis and small tributaries.—More than the normal amount of precipitation occurred over this drainage area, except in those parts of the immediate Mississippi Valley that lie in Missouri, northeastern Arkansas, Kentucky, and Tennessee. The heaviest precipitation was reported from central Mississippi, where the amounts exceeded 8 inches at a few stations. In the immediate Mississippi Valley, the average from 44 stations was 4.92 inches, being about 0.6 inch above the normal. The precipitation ranged generally between 4 and 8 inches over the Valley of the Meramec and the average excess amounted to about 1 inch. Heavy precipitation occurred over portions of the White River Basin, but in some localities the amounts were more than 2 inches below the normal; the average from 21 stations being 4.58 inches, which is slightly above the normal. Heavy rains fell over the Yazoo Basin; the average from 26 stations being 5.73 inches, which is about 2.2 inches above the normal. More than the normal amount of precipitation occurred over the Valley of the Big Black, where the average was 6.03 inches, being about 1.6 inch above the normal. Heavy precipitation occurred over the Ouachita Basin, except at a few widely scattered stations; the average from 19 stations being 5.89 inches, about 1 inch above the normal.

Louisiana coastal plain.—Unusually heavy precipitation occurred throughout this area. The monthly amounts exceeded 10 inches at 5 stations, and one station reported 15.03 inches, the average from 26 stations being 8.18 inches and the average excess about 2.4 inches.

Monthly precipitation and departures from the normal for the various States are reported as follows: Colorado area, 0.97, -0.48 inch; New Mexico area, 1.21, -0.05 ; Texas area, 1.56, -1.44 ; Kansas area, 1.74, -3.00 ; Oklahoma, 1.48, -2.81 ; Missouri area, 4.83, $+0.07$; Tennessee area, 3.64, -0.29 ; Arkansas, 4.85, -0.43 ; Mississippi area, 5.81, $+2.00$; Louisiana, 7.26, $+1.99$.

SNOWFALL.

There was no snowfall reported from any of the stations in the district during the month.

RIVERS.

In Oklahoma the rivers were generally much below the normal stage for June, there being only temporary rises.

Changes in the Red River were generally slight, but a steady fall occurred during the greater part of the month and low stages prevailed generally at the close of the month.

Changes in the upper Arkansas were slight, except that high stages occurred in Colorado during the early part of the month.

At Great Bend, Kans., there was no water in the river during the month. The lower Arkansas was at a fairly good stage during the first and second decades, but the stage was unusually low during the last decade and navigation was practically suspended. The lower White was high during the greater part of the month, but low water continued in the upper portion.

Slight rises and falls occurred in the Ouachita and moderate stages prevailed generally during the month.

Below St. Louis, changes in the Mississippi were slight, but there was a rise at Memphis during the second decade, which passed New Orleans during the third decade, and the water was falling generally at the close of the month.

NOTES.

Fort Union, N. Mex.—Heavy rain which fell on the 13th and 14th improved crops and grass on the range. Hail did some damage near Tiptonville on the 14th. Rain is needed.

Clarendon, Tex.—Scorching winds on the 2d began at 10:00 a. m.; hot winds prevailed again on the 20th. The winds injured crops.

Henrietta, Tex.—Very hot winds prevailed on the 2d.

Nazareth, Tex.—Hot winds occurred on the 2d, 7th, 8th, 10th, and 11th. A sand storm occurred on the 1st.

Plemons, Tex.—Hot winds prevailed from the 17th to 22d.

Romero, Tex.—A sand storm occurred on the 2d.

Texline, Tex.—A sand storm occurred on the 2d and 7th.

Tulia, Tex.—Hot winds occurred on the 1st, 2d, 5th, 6th, 7th, and 17th. These winds injured wheat 20 per cent and oats 50 per cent.

Kansas.—Hot winds occurred on the 18th and 20th in the upper portions of the Arkansas Valley.

Ellinwood, Kans.—Exceptionally heavy hail occurred on the 17th. Many of the hailstones were the size of a hen's egg and some were much larger, weighing from 18 to 20 ounces. Their weight carried them through the roofs of houses. No wind accompanied the hail, otherwise the damage would have been great.

Frederick, Okla.—Abnormally high temperature and drying winds prevailed during the greater part of the month.

Guthrie, Okla.—Rain is badly needed. Springs are drying up.

Healdton, Okla.—Dry and hot weather prevailed. Rain is needed badly.

Hobart, Okla.—Hot winds, which prevailed from the 16th to 25th, damaged corn to some extent.

Jefferson, Okla.—This has been the driest June since 1894.

Missouri.—There was too much rain during the early part of the month for outdoor work. Conditions during the latter half of the month were highly favorable for outdoor occupations. Under the influence of the warmth, sunshine, and drier conditions, all growing vegetation made rapid progress. Farmers are well up with their work at the close of the month.

Granby, Mo.—Heavy rains on the 27th and 28th caused washouts, which delayed Missouri Pacific trains; creeks overflowed adjacent lowlands, damaging the crops.

Anguilla, Miss.—Showers and occasionally heavy rains during the latter part of the month damaged crops, prevented cultivation, and the fields are filled with grass and weeds.

Clarksdale, Miss.—A thunderstorm, accompanied by high winds, occurred about 7:30 p. m. on the 9th, and 3.08 inches of rain fell, mostly within one hour. Fields were flooded and cotton damaged. Seven mules belonging to one farmer were killed by lightning.

Louisville, Miss.—A storm on the night of the 10th did considerable damage to corn and timber.

Magnolia, Miss.—Too much rain occurred during the latter part of the month. The boll weevil is doing considerable damage to cotton.

New Orleans, La.—During the passage of a thunderstorm, June 27, 1910, from 3:27 p. m. to 4:45 p. m., several (6 were counted) incipient waterspouts were seen at a distance of about 7 miles north of the station, on Lake Ponchartrain. The funnel-shaped clouds developed in rapid succession, each appearing where the first was observed; they moved toward the northeast and disappeared in a few minutes after their first appearance. None of them reached full development.

TABLE 1.—Climatological data for June, 1910. District No. 7, Lower Mississippi Valley.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days, 30 inches or more.	Number of partly cloudy days.	Number of cloudy days.			
<i>Colorado.</i>																				
Blaine.	Baca.	3,935	18	73.7	+ 2.2	104	20	43	12	47	2.22	- 0.20	1.62	0.0	3	14	14	2	sw.	
Buena Vista.	Chaffee.	7,955	10	55.3	-	79	11	32	11	47	0.15	0.15	0.0	1	5	19	10	1	nw.	
Calhan.	El Paso.	6,700	3	64.0	-	90 ^a	20	38 ^a	11	43 ^a	0.25	-	0.11	0.0	5	19	10	1	sw.	
Canon City.	Fremont.	5,329	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Colorado Springs.	El Paso.	6,098	30	63.8	+ 0.4	89	20	39	11	38	1.77	- 0.11	1.17	0.0	5	22	7	1	-	
Cripple Creek.	Teller.	9,306	9	-	-	-	-	-	-	-	-	-	1.40	0.52	0.0	6	24	6	0	
Cuchara Camps.	Huerfano.	8,200	-	-	-	-	-	-	-	-	-	-	0.62	0.47	0.0	4	-	-	-	
Eads.	Kiowa.	4,209	3	-	-	-	-	-	-	-	-	-	0.11	-	-	-	-	-	-	
Fairview.	Custer.	9,500	1	-	-	-	-	-	-	-	-	-	0.06	0.0	4	20	10	0	e.	
Florence.	Fremont.	5,185	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Garfield.	Chaffee.	9,510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Glen Eyrie.	El Paso.	6,500	18	62.8	+ 1.2	94	20	32	11	49	0.19	- 1.52	0.09	0.0	6	14	14	2	-	
Hamps.	Elbert.	5,400	-	64.0	+ 1.5	90	18	38	12	44	0.13	- 1.81	0.12	0.0	2	18	10	2	s.	
Hermit Lake.	Custer.	10,000	-	-	-	-	-	-	-	-	-	-	0.87	-	-	-	-	-	-	
Hoehne (near).	Las Animas.	5,700	18	70.4	+ 4.1	110	17	38	10 ^f	55	0.51	-	0.69	0.22	0.0	4	20	8	w.	
Holly.	Prowers.	3,380	15	72.7	+ 1.3	103	20	40	10	48	0.73	-	1.00	0.28	0.0	6	13	15	2	
Lake Moraine.	El Paso.	10,265	16	51.2	+ 1.6	73	23	25	10	37	3.07	+ 0.86	1.33	0.0	9	7	21	2	se.	
Lamar.	Prowers.	3,592	20	75.2	+ 2.2	105	21	40	10	50	0.54	-	1.53	0.54	0.0	1	24	5	1	
Las Animas.	Bent.	3,899	42	74.3	+ 2.0	103	19 ^f	42	11	51	0.93	-	0.41	0.93	0.0	1	9	11	10	ne.
La Veta Pass.	Costilla.	9,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Leadville.	Lake.	10,248	14	52.2	+ 2.9	73	19 ^f	29	11	41	0.64	-	0.06	0.50	0.0	2	-	-	-	-
Limon (near).	Elbert.	5,380	3	64.2	-	92	20 ^f	38	12	47	0.04	-	0.04	0.0	1	26	4	0	se.	
Marshall Pass.	Saguache.	10,846	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
North Lake.	Las Animas.	8,700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pueblo.	Pueblo.	4,734	22	70.8	+ 1.8	97	10	45	11	44	1.17	- 0.11	0.42	0.0	5	16	12	2	nw.	
Rockyford (near).	Otero.	4,177	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
St. Elmo.	Chaffee.	9,500	-	-	-	-	-	-	-	-	-	-	0.54	-	0.51	0.0	3	15	13	
Salida.	do.	7,035	12	61.2	+ 1.0	87	19	35	11	49	0.54	-	0.38	0.27	0.0	2	25	4	1	
Santa Clara.	Huerfano.	8,250	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sheridan Lake.	Kiowa.	4,065	9	74.2	-	103	19 ^f	38	11	48	0.26	-	0.26	0.0	1	23	4	3	se.	
Stonewall.	Las Animas.	8,000	4	-	-	-	-	-	-	-	-	-	0.73	-	0.29	0.0	5	12	17	
Trinidad.	do.	5,994	14	-	-	-	-	-	-	-	-	-	0.08	-	2.46	0.08	0	1	2	
Victor (near).	Teller.	10,100	6	59.3	-	84	20	35 ^b	11	39 ^b	1.36	-	1.16	0.0	2	20	10	0	e.	
Vilas.	Baca.	3,935	19	-	-	-	-	-	-	-	-	-	5.02	+ 3.06	2.48	0.0	3	21	7	
Westcliffe.	Custer.	7,884	16	59.2	+ 1.1	88	5	31	10 ^f	55	1.26	-	0.17	0.94	0.0	6	16	10	4	sw.
Winfeld.	Chaffee.	9,785	-	-	-	-	-	-	-	-	-	-	0.87	-	0.79	0.0	7	4	6	
Wortman.	Lake.	11,250	9	-	-	-	-	-	-	-	-	-	1.47	-	0.90	0.0	3	0	18	
<i>New Mexico.</i>																				
Abbott.	Mora.	5,771	-	-	-	-	-	-	-	-	0.68	-	0.38	0.0	3	11	17	2	s.	
Albert.	Union.	4,700	19	75.0	+ 1.5	101	8	48	11	40	2.01	+ 0.09	1.85	0.0	3	9	21	0	w.	
Arch (near).	Roosevelt.	4,634	1	-	-	-	-	-	-	-	0.61	-	0.27	0.0	3	17	1	12	se.	
Aurora.	Colfax.	8,849	-	-	-	-	-	-	-	-	-	-	0.54	-	0.24	0.0	6	0	30	
Bell Ranch.	San Miguel.	4,500	11	75.1	-	104	8	48	5 ^f	51	2.30	+ 0.38	1.14	0.0	7	8	22	0	se.	
Black Lake.	Colfax.	8,348	-	-	-	-	-	-	-	-	-	-	0.23	-	0.20	0.0	2	10	1	
Cabeza.	San Miguel.	5,406	-	-	-	-	-	-	-	-	-	-	0.22	-	0.08	0.0	4	7	20	
Campana.	do.	4,493	-	-	-	-	-	-	-	-	-	-	1.31	-	1.00	0.0	4	5	19	
Chacon.	Mora.	9,000	-	-	-	-	-	-	-	-	-	-	1.13	-	0.66	0.0	5	5	24	
Cimarron (near).	Colfax.	6,385	6	65.0	-	90	19 ^f	34	11	48	2.17	-	1.13	0.0	8	10	15	5	e.	
Clayton.	Union.	5,178	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cloudy.	Curry.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cuervo.	Guadalupe.	4,849	-	78.0	-	104	18	51	11	39	0.45	-	0.30	0.0	7	9	19	2	s.	
Dawson.	Colfax.	6,396	-	-	-	-	-	-	-	-	-	-	1.71	-	0.81	0.0	5	6	14	
Dorse (near).	do.	6,000	6	68.8	-	94	21 ^f	42	11	47	1.52	-	0.64	0.0	5	16	13	1	w.	
Elizabethtown.	Union.	8,465	4	55.8	-	83	19 ^f	24	11	54	0.96	-	0.78	0.0	2	19	10	1	sw.	
Folsom.	Union.	6,399	10	-	-	-	-	-	-	-	-	-	0.49	-	1.30	0.16	0.0	5	13	
Fort Union.	Mora.	6,835	50	62.8	- 2.7	90	8	33	11	46	3.40	+ 1.15	2.30	0.0	3	22	7	1	sw.	
Hayden.	Union.	4,444	1	-	-	-	-	-	-	-	-	-	0.32	-	0.28	0.0	2	12	9	
Johnsons Park.	Colfax.	6,722	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lake Alice.	do.	7,160	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Logan.	Quay.	3,851	4	76.4	-	106 ^b	8	42 ^b	16	55 ^b	0.42	-	0.42	0.0	1	24	6	0	s.	
Los Alamos.	San Miguel.	6,789	5	-	-	-	-	-	-	-	3.00	-	1.35	0.0	6	5	8	16	6	
Lykins (near).	Roosevelt.	5,894	3	-	-	-	-	-	-	-	0.93	-	0.38	0.0	5	8	16	6	se.	
Maxwell (near).	Colfax.	5,894	-	-	-	-	-	-	-	-	-	-	0.19	-	0.0	5	20	7	3	
Melrose.	Curry.	4,400	2	75.3	-	104	8	45	11	48	0.45	-	0.35	0.0	5	15	14	1	se.	
Miami Ranch.	Colfax.	6,000	2	67.0	-	91	19	39	11	46	0.93	-	0.35	0.0	3	15	14	0	w.	
Montoya.	Quay.	4,335	-	-	-	-	-	-	-	-	0.15	-	0.09	0.0	2	1	29	0	w.	
Nara Visa.	do.	4,225	4	75.7	-	104 ^b	19	52 ^b	4 ^f	46 ^b	0.12	-	0.12	0.0	1	13	9	0	s.	
Pasamonte.	Union.	-	-	-	-	-	-	-	-	-	1.02	-	0.77	0.0	2	4	8	18	s.	
Raton.	Colfax.	6,669	12	67.0	+ 1.7	94	20	39	11	43	0.41	- 1.34	0.20	0.0	3	26	4	0	s.	
Rociada.	San Miguel.	8,200	6	61.4	-	88	3	32	11	51	1.64	-	0.35	0.0	10	12	18	0	w.	
Roy.	Mora.	5,884	-	-	-	-	-	-	-	-	-	-	2.46	-	1.89	0.0	4	3	19	
San Jon.	Quay.	4,200	3	77.5	-	105	8	46	11	43	1.28	-	0.46	0.0	10	9	15	6	sw.	
Solano(1).	Mora.	5,622	1	69.7	-	99	8	40	11	45	2.81	-	1.85	0.0	8	13	11	6	s.	
Springer.	Colfax.	5,857	14	67.6	0.0	98	29 ^f	30	13 ^f	55	2.10									

TABLE I.—Climatological data for June, 1910. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeasured.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.			
Texas—Cont'd.																						
Memphis.	Hall.	2,067	5	76.5		108	2	51	6	47	1.61		1.00	0.0	4	20	8	3		Ft. Worth & Denver Cy. Ry.		
Miami.	Roberts.	2,743	4	77.6		104	2	49	11	44	0.98		0.56	0.0	5	18	12	0	s.	J. E. Kinney.		
Mobeetie.	Wheeler.		1										0.40	0.0	0	1	19	11	c.	R. A. Choate.		
Nazareth.	Castro.		4	75.4		105	8	45	14	45	1.72		0.92	0.0	4	26	0	4	s.	Rev. P. A. Kaelin.		
Ochiltree.	Ochiltree.		2										0.21	0.0	5					S. J. Allen.		
Pampa.	Gray.	3,226	1	75.8		108	2	43	10	45	1.20		0.85	0.0	2					B. E. Finley.		
Paris.	Lamar.	592	21	78.2	+ 2.9	101	2	56	13	39	0.98	- 2.53	0.68	0.0	5	18	3	9	s.	Robert A. Miller.		
Plemons.	Hutchinson.		3	74.5		104	2	42	11	47	0.37		0.32	0.0	3	15	9	6	se.	C. S. Solomon.		
Quanah.	Hardeman.	1,563	5	81.0		107	2	55	11	44	0.40		0.40	0.0	1	23	3	5	s.	Wm. H. Crawford.		
Ringo Crossing.	Hopkins.												3.28							H. J. Palmer.		
Romero.	Hartley.												0.87	0.0	5	19	2	9	s.	R. S. Chamberlain.		
Sherman.	Grayson.	745	17	80.0	+ 0.5	97	19	59	15	29	0.44	- 3.08	0.20	0.0	3	18	10	2	s.	R. A. Gibbs.		
Sulphur Springs.	Hopkins.	530	18	78.0 ^d	+ 0.4	100 ^d	2	53	13	31	3.01	3.38 + 0.03	1.95	0.0	3	13	10	4	se.	O. M. Pate.		
Texline.	Dallam.	4,694	5										1.03							Ft. Worth & Denver Cy. Ry.		
Tulia.	Swisher.	3,501	12	77.1		109	8	48	10	49	1.25		0.56	0.0	5	4	26	0	s.	Lou Mulhall.		
Wichita Falls.	Wichita.																		John Gould.			
Winfield.	Titus.	953	5										4.23		1.60	0.0	6	11	18	1	sc.	J. C. Bostick.
Kansas.																						
Anthony.	Harper.	1,329	13	75.2		103	22	47	12	36	0.70	- 3.66	0.65	0.0	4	16	10	4	sc.	R. H. Beebe.		
Ashton.	Clark.	1,951	22	74.6	- 0.6	105	23	49	13	52	1.42	- 2.18	0.90	0.0	6	14	15	1	sc.	C. W. Carson.		
Burlington.	Coffey.	1,010	17	72.6	- 0.7	97	18 ^f	48	11 ^f	45	2.44	- 4.02	0.67	0.0	7	8	18	4	sc.	O. E. Sanford.		
Chanute.	Neosho.	940	6	71.2		94	25	50	11 ^f	29 ^f	2.98		0.92	0.0	8	16	8	6	sc.	Chase W. Brown.		
Cimarron.	Gray.	2,700	4	72.0		102	18	49	9	46	1.42		0.50	0.0	5	8	20	2	se.	Fred Mallonee.		
Coldwater.	Comanche.	2,000	13	74.2	- 0.4	101	22	44	11	36	1.44	- 2.31	0.60	0.0	6	19	8	3	se.	J. L. Stanley.		
Columbus.	Cherokee.	898	20	72.8	- 1.3	93	20 ^f	51	11	39	2.41	- 3.89	0.60	0.0	11	17	10	3	se.	O. E. Skinner.		
Coolidge.	Hamilton.	3,346	13	71.7	- 0.4	100	19 ^f	30	11	44	1.25	- 1.22	1.00	0.0	5	15	14	1	sc.	W. R. Padley.		
Cottonwood Falls.	Chase.	1,334	6	70.9		94	18 ^f	46	5	34	2.09		0.92	0.0	11	16	9	5	sc.	E. B. Greene.		
Council Grove.	Morris.	1,191	1	69.6		94	21	45	5	38	0.98		0.50	0.0	4	16	8	6	s.	Jas. Sharpe.		
Cunningham.	Kingman.	1,680	26	74.5	- 0.2	101	21	45 ^a	11	39 ^a	0.35	- 3.65	0.30	0.0	2	10	16	4	se.	W. H. Morton.		
Dodge City.	Ford.	2,513	36	72.2	- 1.1	98	21	45	11	38	2.27	- 1.05	1.22	0.0	6	12	14	4	se.	U. S. Weather Bureau.		
El Dorado.	Butler.	1,291	8	72.0		93	21	48	11 ^f	30	3.46		1.50	0.0	7	19	9	2	s.	W. Y. Miller.		
Ellinwood.	Barton.	1,788	35	73.4	+ 0.5	100	21	44	11	45	0.66	- 3.77	0.15	0.0	8	3	24	3	se.	Martin Musil.		
Emporia.	Lyon.	1,138	29	69.8	- 4.2	95	18 ^f	45	5	33	1.36	- 3.73	0.33	0.0	7	15	8	5	sc.	W. H. Boyles.		
Eureka.	Greenwood.	1,093	14	71.6		95	18 ^f	48	5	35	0.85	- 4.35	0.45	0.0	7	19	6	5	sc.	T. C. Peffer.		
Fall River.	do.	925	14	72.4	- 0.7	97	23	48	11 ^f	35	1.24	- 4.17	0.45	0.0	8	18	9	3	se.	J. McDaniel.		
Fargo.	Seward.		1										1.57			1	18	5	7	se.	Frank Swink.	
Fredonia.	Wilson.	864	7	72.7		94	21	49	11	31	3.09		1.75	0.0	12	16	9	5	se.	B. W. Holmes.		
Garden City.	Finney.	2,836	21	74.0	+ 0.8	103	21	43	11	46	2.19	- 1.32	0.90	0.0	7	19	12	4	sc.	B. F. Stocks.		
Great Bend.	Barton.	1,850	1										1.16							J. A. Pritchard.		
Greensburg.	Kiowa.	2,235	3	72.1		99	21	42	6	35	1.62		0.42	0.0	3	23	4	3	sc.	C. C. Raymond.		
Grenola.	Elk.	1,116	23	71.8	- 1.9	94	21 ^f	48	11	35	2.08	- 3.01	0.91	0.0	5	17	9	4	s.	R. M. Lawyer.		
Howard.	do.	1,112	3																J. W. Eby.			
Hugoton.	Stevens.		6	76.8		108	20	41	11	51	3.88		3.16	0.0	3	8	18	4	sc.	E. M. Anderson.		
Hutchinson.	Reno.	1,535	20	73.1	- 0.3	101	21	44	12	36	0.89	- 4.00	0.25	0.0	6	17	6	7	se.	E. S. Webster.		
Independence.	Montgomery.	816	37	73.3	- 2.3	95	21 ^f	51	11 ^f	32	2.96	- 2.28	0.82	0.0	11	15	8	7	se.	F. L. Kenoyer.		
Iola.	Allen.	984	4	71.8	- 1.6	94	21	50	12	30	1.62	- 3.11	0.51	0.0	10	15	10	5	se.	U. S. Weather Bureau.		
Jetmore.	Hodgeman.	2,268	9	72.2		100	21	42	11	38	1.74		1.50	0.0	5	7	18	5	se.	James Aiken.		
Kingman.	Kingman.	1,504	2	75.0		102	21	49	11 ^f	36	1.91		1.44	0.0	4	13	14	3	sw.	B. B. Anawalt.		
La Crosse.	Rush.	2,061	8	72.1		99	21	40	11	37	0.98		0.42	0.0	5	22	5	3	se.	Rodney Torrey.		
Lakin.	Kearney.	2,993	20	73.7	+ 1.8	107	19 ^f	40	11	50	1.53	- 1.03	0.52	0.0	5	17	12	1	se.	C. H. Longstreth.		
Larned.	Pawnee.	2,090	25	74.3		102 ^b	21	43 ^b	11	46 ^b	1.44	- 2.60	0.41	0.0	8	15	6	5	se.	H. H. Wolcott.		
Lebo.	Coffey.	1,138	24	70.8	- 2.8	95	18	49	5	28	3.84	- 1.98	2.45	0.0	9	17	8	5	s.	J. B. Bowman.		
Le Roy.	do.	990	1										2.32		0.96	0.0	9	16	1	13	s.	F. W. Schmitt.
Liberal.	Seward.	2,843	3	76.2		106	18	45	5	49	1.30		0.80	0.0	4	15	7	8	sc.	Dr. R. T. Nichols.		
Mc Pherson.	Mc Pherson.	1,495	21	72.6	- 0.9	97	17 ^f	45	11	36	1.58	- 4.23	1.34	0.0	5	20	1	9	sc.	Mrs. Nelia Poling.		
Macksville.	Stafford.	2,032	21	73.0	+ 0.5	99	21	42	11	34	0.91	- 3.17	0.30	0.0	6	10	16	10	se.	Ed. F. Haberlein.		
Madison.	Greenwood.	1,074	9	71.2		96	18 ^f	45	12	37	1.28	- 4.38	0.58	0.0	7	13	13	4	se.	C. A. David.		
Marion.	Marion.	1,310	17	73.2	- 0.4	95	21	45	5	47 ^b	3.6	- 4.11	0.96	0.0	9	9	18	3	sc.	D. D. McIntosh.		
Medicine Lodge.	Barber.	1,475	17	74.6	- 0.9	102	21 ^f	44	12	36	0.94		0.94	0.0	1	19	8	3	sc.	S. P. Garrison.		
Medora.	Reno.	1,484	1										0.85		0.28	0.0	5	16	6	8	sc.	M. L. Richenbode.
Mount Hope.	Woods.	1,410	13										2.02	- 3.25	1.00	0.0	5	18	6	6	s.	H. N. Renfrew.
Neosho Rapids.	Lyon.	1,092	5										0.99	- 2.31	0.40	0.0	0	6				J. K. Barnard.
Ness City.	Ness.	2,260	17										1.87	- 3.15	0.86	0.0	5	19	7	4	sc.	C. F. Walden.
Newton.	Harvey.	1,454	13			98	21						1.89	- 2.41	1.33	0.0	6	10	17	3	se.	N. I. Farris.
Norwich.	Kingman.	1,496	4	76.1	+ 1.9	101	21	48	11	32	1.89	- 3.40	0.30	0.0	6	10	16	10	se.	E. H. Ellsworth.		
Oswego.	Carter.	1,050	15	74.0	- 0.4	100	21	45	11	34	2.40	- 3.11	0.20	0.0	1	17	8	5	se.	D. M. Adams.		
Pratt.	Summer.	1,218	24	74.6	+ 0.3	101	21	46	12	38	1.0											

TABLE 1.—Climatological data for June, 1910. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days 0.1 inch or more.	Number of clear days.	Number of partly cloudy days.		
Oklahoma—Cont'd.																			
Fort Gibson.	Muskogee.	556	6								2.03		0.82	0.0	9	18	2	10	s.
Frederick.	Tillman.	1,293	7	76.0		108	2	49	12	50	2.02		1.28	0.0	6	12	13	5	se.
Gage.	Ellis.	2,136	8	75.4		103	22	46	11	45	1.63		0.75	0.0	5	10	11	0	s.
Goodwell.	Texas.	3,300	7	76.2		105	2	45	11	48	0.26		0.12	0.0	5	4	25	1	s.
Guthrie.	Logan.	1,000	8	78.0		105	22	45	12	43	0.35		0.20	0.0	3				
Guymon.	Texas.	3,133	1										1.45		0.57	0.0	4		s.
Harrington.	Roger Mills.	2,200	7	75.9		104	8	53	21	49	0.40		0.25	0.0	3	14	12	4	sw.
Hartshorne.	Pittsburg.	700	12	77.4	-0.6	98	21†	50	12	32	3.28	-1.63	1.20	0.0	6	14	8	5	s.
Healdton.	Carter.	900	17	76.2	-1.7	105	2	45	12	48	0.94	-2.37	0.48	0.0	4	16	14	0	s.
Helena.	Alfalfa.	1,386	3	75.4		100	21†	48	11	33	1.55		0.92	0.0	5	19	10	1	s.
Hennessey.	Kingfisher.	1,166	16	76.0	+1.2	103	22	48	7	39	1.67	-2.09	0.82	0.0	3	5	24	1	s.
Hobart.	Kiowa.	1,396	7	81.1		110	22	49	12	50	0.95		0.86	0.0	3	12	18	0	s.
Holdenville.	Hughes.	900	10	76.1	+0.6	99	19	48	12	38	0.44	-3.92	0.25	0.0	5	24	5	1	s.
Hooker.	Texas.	2,999	5	76.0		106	18	44	11	47	1.03		0.82	0.0	6	11	0	19	s.
Hurley.	Cimarron.	3,600	2	74.7		104	20	40	10	45	T.		T.	0.0	0	9	20	1	sw.
Iabel.	McCurtain.	474	3																
Jefferson.	Grant.	1,062	17	76.5	+0.2	105	22	46	12	37	1.20	-3.36	0.98	0.0	4	21	9	0	se.
Kenton.	Cimarron.	4,000	11	73.8	+2.4	100	19†	42	11	45	0.68	-1.36	0.29	0.0	6	16	10	4	s.
Kingfisher.	Kingfisher.	1,046	13	77.7	+1.1	104	22	47	12	41	2.42	-2.48	1.80	0.0	4	14	14	2	s.
McAlester.	Pittsburg.	698	18	77.8		101	21	50	12	35	1.88	-3.76	0.72	0.0	6	11	7	4	s.
McComb.	Pottawatomie.	1,200	16	76.8	+0.7	101	2	49	12†	43	1.04	-2.37	0.74	0.0	2	11	19	0	sc.
Mangum.	Greer.	1,555	18	78.4	+1.3	105	22	50	12	45	0.12	-4.52	0.08	0.0	3				
Marlow.	Stephens.	1,292	10																
Meeker.	Lincoln.	1,030	17	77.2	+0.6	102	2	45	11†	37	0.45	-3.58	0.30	0.0	2	22	7	1	s.
Muskogee.	Muscowee.	614	12	75.8	+0.4	99	21	52	11	37	1.53	-2.64	0.54	0.0	5	18	9	3	s.
Mutual.	Woodward.	1,000	4	75.1		104	22	44	2	46	1.00		0.38	0.0	4	19	6	5	s.
Neola.	Caddo.	1,500	5	78.2		108	2	47	12	56	0.88		0.48	0.0	5	11	17	2	s.
Newkirk.	Kay.	1,149	14	77.8	+2.2	104	18†	50	11	34	1.82	-3.61	0.51	0.0	6	20	9	1	s.
Norman.	Cleveland.	1,171	17																
Oakwood.	Dewey.	1,854	7	74.5		99	8†	51	5†	36	2.84		2.71	0.0	3	23	6	1	s.
Okeene.	Blaine.	1,194	7	76.0		101	21†	49	12	36	2.38		1.86	0.0	4	25	4	1	s.
Oklahoma.	Oklahoma.	1,247	21	76.2	+0.5	97	2	53	12	40	1.09	-1.98	0.62	0.0	6	12	16	2	s.
Omulgee.	Omulgee.	752	8	72.9		99	21	49	12	35	1.55		0.65	0.0	7	22	3	5	s.
Pauls Valley.	Garvin.	880	11																
Pawhuska.	Osage.	918	12	75.9	+0.3	99	21†	50	12	39	2.21	-3.77	1.11	0.0	6	21	9	0	s.
Perry.	Noble.	1,060	13	76.0	+1.1	101	22	50	5	34	1.27	-3.36	1.06	0.0	5	23	5	2	s.
Ravia.	Johnson.	796	9	76.8		104	19	49	12	40	0.36		0.18	0.0	5	23	5	2	s.
Sac & Fox Agency.	Lincoln.	900	18																
Shawnee.	Pottawatomie.	1,041	10	76.2	+0.6	101	22	47	12	42	0.69	-4.74	0.39	0.0	3	20	7	3	s.
Snyder.	Kiowa.	1,356	4	78.9		105	2	53	12†	44	1.02		0.76	0.0	5	17	12	0	se.
Stillwater.	Payne.	880	13	75.4	-0.3	99	22	49	12	34	1.05	-2.91	0.48	0.0	5	20	5	5	se.
Supply.	Woodward.	2,100	3	75.2		100	21†	45	11	40	3.09		1.90	0.0	6	14	14	1	s.
Tulsa (1).	Tulsa.	700	23	75.8		99	22	52	12	31	3.22	-1.26	1.30	0.0	8	10	17	3	s.
Vinita.	Craig.	698	7	73.8		94	21	52	11†	35	1.50		0.65	0.0	4	18	7	5	s.
Wagoner.	Wagoner.	588	14	74.8	-0.7	96	20†	54	11	31	1.67	-2.68	0.41	0.0	9	17	6	7	s.
Waukomis.	Garfield.	1,258	14	76.4	-0.2	106	22	51	4	44	1.71	-2.03	1.63	0.0	3	15	15	0	se.
Waurika.	Jefferson.	988	80	80.0		108	3	50	12	44	2.11		1.60	0.0	5	22	6	2	se.
Weatherford.	Custer.	1,639	9	77.0		102	22	48	12	40	1.51		0.74	0.0	5	20	8	2	e.
Webbers Falls.	Muskogee.	479	12	77.2	+0.7	97	19	49	6	43	1.30	-2.98	0.50	0.0	5	10	19	1	e.
Whiteagle.	Kay.	945	5	77.2	+1.3	98	21	52	11	28	1.55		0.84	0.0	9	22	7	1	s.
Woodward.	Woodward.	1,886	1	75.0		102	22	44	11	39	1.17		0.57	0.0	5	21	9	0	s.
<i>Missouri.</i>																			
Belle.	Maries.	18	69.2	-3.4	91	19	45	2	32	5.95	+0.97	2.45	0.0	7	6	17 ^b	5 ^b	s.	
Birchtree.	Shannon.	1,200	17	70.0	-2.7	92	19	48	2†	33	4.42	+1.88	2.40	0.0	9	17	8	5	ne.
Cape Girardeau.	Cape Girardeau.	346	5																
Caruthersville.	Pemiscot.	20	73.0	-3.9	96	20	50	2	35	2.92	-1.16	1.32	0.0	5	21	1 ^a	1 ^a	e.a.	
Dean.	McDonald.	11	70.6	-2.6	93	21	48	12†	35	5.39	-1.17	1.13	0.0	11	18	6	9	e.c.	
Doniphian.	Ripley.	440	6	70.9		94	20	49	12	34	3.01		1.40	0.0	11	18	6	6	s.
Farmington.	St. Francois.	889	3																
Gano.	Dent.	7	68.6																
Goodland.	Iron.	900	5	67.2		94	19†	46	9	33	5.15		1.95	0.0	11	15	10	5	ne.
Greenville.	Iron.	900	5	67.2	-1.9	95	19†	42	2	37	3.98		0.90	0.0	7	17	3	10	s.
Hollister.	Wayne.	16	72.0												4	15	15	0	s.
Ironton.	Taney.	925	32	68.0	-3.9	94	20	41	12	39	3.62	-1.46	1.66	0.0	9	12	12	6	s.
Jackson.	Cape Girardeau.	458	19	71.4	-2.3	95	20†	46	2	35	2.62	-1.71	1.03	0.0	7	11	10	9	s.
Joplin.	Jasper.	979	32	73.4		95	22†	52	11	27	3.94	-0.97	1.95	0.0	9	22	7	1	sc.
Koshkonong.	Oregon.	910	10	71.4		92	20	53	3	27	9.01		2.00	0.0	10	9 ^a	16 ^a	4 ^a	se.
Lamar.	Barton.	964	30	72.3	-1.7	96	20	49	11†	33	4.04	-0.89	1.55	0.0	7	18	6	6	e.
Marble Hill.	Bollinger.	420	19																
Mountingrove.	Wright.	1,490	11	67.8	-3.7	88	20	48	12	28	4.85	+0.54	2.15	0.0	8	13	7	10	ne.
Mount Vernon.	Lawrence.	1,430	34																
Neosho.	Newton.	1,033	27	71.2	-2.6	92	20†	49	12†	34	8.14	+2.61	2.55	0.0	11	19	4	7	sc.
New Madrid.	New Madrid.	235	16																
Oakfield.	Franklin.	793	18	70.9	-3.1	94	26	47	3	28	4.46	-0.11	1.55	0.0	9	5			

TABLE 1.—Climatological data for June, 1910 District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, 1/2 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Pervailing wind direction.	Observers.		
				Mean.	Departure from the normal:	Highest. Date.	Lowest. Date.	Greatest daily range.	Total.	Departure from the normal:	Greatest in 24 hours.	Total snowfall unmeted.											
Arkansas.																							
Alicia.	Lawrence.	6	72.3		- 1.0	94 20	51 14	31	4.95	- 3.44	2.50	0.0	6	19	9	2	nw.	McCullough & Guelck.					
Amity.	Clark.	250	75.2			98 20	52 12	35	2.00		0.80	0.0	8	11	12	7	sw.	Prof. S. M. Samson.					
Arkadelphia (near).	do.	250	76.8			99 18	55 12	34	5.28		2.04	0.0	9	16	5	9	sw.	J. A. Ross.					
Arkansas City.	DeSha.	145	27							8.14	+ 3.97	1.60	0.0	11				W. C. Blundell.					
Batesville (2).	Independence.	271	6							6.16		1.10	0.0	16				Mrs. Lelia I. Teter.					
Bee Branch.	Van Buren.	18	73.8	- 2.1	94 ^b 19 ^c	51 ^b 12	32	6.85	+ 3.73	1.15	0.0	11	8	13	9		s.	J. E. Scanlon.					
Benton.	Saline.	283	3	75.6		95 19 ^c	55 12	33	3.62		2.50	0.0	6				s.	J. E. Evans.					
Bentonville.	Benton.	1,303	5	71.2	- 2.9	91 21	51 14	29	4.21	- 0.35	1.41	0.0	12	16	11	3	e.	U. S. Weather Bureau.					
Bergman.	Boone.	1,324	14	67.4	- 5.3	91 19	44 12	34	5.02	+ 0.34	2.15	0.0	6	15	10	5	ne.	John T. Maxey.					
Black Rock.	Lawrence.	6								3.90		1.27	0.0	11				S. J. Howe.					
Brinkley.	Monroe.	226	24	74.2	- 2.9	95 17	54 12	36	5.97	+ 2.55	1.82	0.0	10				s.	H. L. D. Whitson.					
Calico Rock.	Isard.	361	6							3.66		1.12	0.0	6				W. H. Stoner.					
Camden.	Ouachita.	153	25	76.1	- 1.9	95 18 ^c	53 12	31	5.60	+ 0.72	1.24	0.0	9	16	9	5	sw.	R. H. Quarterman.					
Centerpoint.	Howard.	10	77.8			98 20	53 12	37	2.18		1.00	0.0	3	14	8	8	sw.	J. M. Huddleston.					
Clarendon.	Monroe.	171	6							4.80		1.09	0.0	13				Mrs. B. E. Bishop.					
Conway.	Faulkner.	308	27	74.8	- 2.0	91 20 ^c	55 12	28	5.73	+ 1.73	2.16	0.0	14	10	18	2	se.	G. H. Burr.					
Corning.	Clay.	293	18	72.4	- 3.3	94 20	51 12	31	1.93	- 2.13	1.12	0.0	10	6	16	8	s.	Jacob Brobst.					
Dardanelle.	Yell.	330	24	74.6		92 21 ^c	53 12	33	5.79	+ 1.89	1.86	0.0	9				s.	A. Bernard.					
Dennard.	Van Buren.																	Fred B. Brown.					
Dodd City.	Marion.	1,175	29	70.9	- 5.1	92 ^b 19 ^c	47 ^b 13	34 ^b	7.45	+ 3.05	2.80	0.0	8				s.	Neal Dodd.					
Dutton.	Madison.	9	72.0 ^a			90 20	52 ^b 10	31 ^b	5.36		1.80	0.0	8				s.	Edward Mize.					
Earl.	Crittenden.	4	74.4							95 ^b 20	54 ^b 9	4.12		1.97	0.0	8		s.	W. J. Moss.				
Eldorado.	Union.	265	6	76.4						94 18	56 12	30	7.25				s.	Fred A. Babb.					
England.	Lonoke.	4	74.8							93 18 ^c	54 12	31	6.06				s.	J. C. Chenault.					
Eureka Springs.	Carroll.	9	72.3			95 20	49 12	34	4.85		1.30	0.0	11	8	21	1	sw.	S. H. Britts.					
Fayetteville.	Washington.	1,451	21	71.8	- 1.9	91 21	48 12	32	2.32	- 2.52	0.72	0.0	12	12	16	2	ne.	University of Arkansas.					
Fort Smith.	Sebastian.	481	28	76.1	- 0.7	97 20	54 12	33	3.04	- 0.98	1.23	0.0	10	13	14	3	c.	U. S. Weather Bureau.					
Fulton.	Hempstead.	264	6								2.40		1.00	0.0	6				C. B. Logan.				
Hardy.	Sharp.	643	12	71.4	02	98 20	51 12	32	5.33	+ 1.43	2.11	0.0	12	3	19	8	sw.	C. A. Caywood.					
Helena (2).	Phillips.	182	9	75.8	- 2.5	98 18	54 1	33	3.76	- 0.40	1.42	0.0	9				s.	B. F. Modisett.					
Hot Springs.	Garland.	600	4	73.2		94 ^b 20	48 12	34 ^c	8.54		4.50	0.0	11	22	8	0	ne.	Hot Spring Water Co.					
Huttig.	Union.	85	3	77.0						95 ^b 18 ^c	57 ^a 12	33	8.32				s.	C. A. Berry.					
Jonesboro.	Craighead.	345	15	73.2	- 4.7	97 17	50 12	38	3.84	- 0.23	1.78	0.0	7	11	17	2	sw.	Benedictine Sisters.					
Junction.	Union.	17	77.3	- 0.4	98 18	54 12	30	7.19	+ 2.68	1.50	0.0	8	17	5	2	sw.	J. A. Lowerback.						
Lake Farm.	Jefferson.	195	3	74.4		94 18 ^c	53 12	32	6.27		2.15	0.0	8	13	15	2	s.	R. H. Gillespie.					
Lewisville.	Lafayette.	262	7	77.2		96 19	55 12	35 ^c	4.52		1.12	0.0	13				s.	F. W. Youmans.					
Little Rock.	Nevada.	357	31	74.6	- 2.6	91 20	59 12	24	7.25	+ 3.16	2.60	0.0	14	8	17	5	ne.	U. S. Weather Bureau.					
Lutherenville.	Johnson.	775	13	73.0	- 2.0	93 19	47 13	33	5.02		1.73	0.0	10	8	17	5	ne.	Herman Hentschel.					
McNeil.	Columbia.	321	3														s.	L. A. Smith.					
Malvern.	Hot Spring.	277	23	75.4	- 1.9	96 21	53 12	32	3.44	- 0.12	1.10	0.0	8				s.	Miss L. C. Smith.					
Mammoth Spring.	Fulton.	6	70.4			92 ^a 20	45 ^a 12	34	6.30		2.08	0.0	12	7	19	4	sw.	F. Wallack.					
Marked Tree.	Poinsett.	6								6.54		1.97	0.0	11				L. Smith.					
Mena.	Polk.	1,100	24	68.6	- 3.0	88 19	50 12	30	5.36	- 0.03	2.24	0.0	7	14	4	12	s.	D. H. Hopkins.					
Mossdale.	Newton.	17															Theo. Ober.						
Mount Nebo.	Yell.	1,750	20	74.2	- 3.1	95 20	57 12	28	4.06	+ 0.26	1.25	0.0	12				s.	T. G. Church.					
Newport (1).	Jackson.	231	26	74.2						57 13	34	5.25	+ 0.62	3.34	0.0	9	16	13	1	e.	L. R. Cobb.		
Ozark.	Franklin.	377	19	75.2	- 3.0	97 27	51 13	34	5.25	+ 0.46	3.11	0.0	9				s.	R. M. Adams.					
Pine Bluff.	Jefferson.	215	22	76.0	- 3.1	95 21	55 12	32	4.59	+ 0.46	3.16	0.0	9	9	16	5	sw.	J. M. Hudson.					
Pocahontas.	Randolph.	18		72.8	- 2.3	95 20	54 14	32	2.67	- 1.21	1.36	0.0	9	9	16	5	s.	Benedictine Sisters.					
Pond.	Benton.	1,260	13	71.0	- 2.3	91 20 ^c	49 12	32	3.73	- 3.48	1.01	0.0	12	4	21	5	sw.	A. F. Stevens.					
Portland.	Ashley.	122	1	76.0		93 21 ^c	55 15	32	6.52		2.02	0.0	11				s.	T. A. Corson.					
Prescott.	Nevada.	327	22	76.2	- 2.2	96 20	52 13	35 ^c	4.47	+ 1.17	1.42	0.0	8				s.	A. M. Ellsworth.					
Rogers.	Benton.	1,388	19	70.6	- 2.7	90 21	49 12	31	2.24	- 2.34	0.66	0.0	13	11	11	8	s.	Carl A. Stark.					
Spielerville.	Logan.	1,050	13	75.0	- 2.0	95 21	54 13	32	4.71	+ 0.19	2.51	0.0	11	16	9	5	e.	New Subiaco Abbey.					
Springbank.	Miller.	182	3							4.05		1.55	0.0	9				G. Field.					
Stuttgart.	Arkansas.	495	23	75.0	- 2.3	93 18	56 12	27	6.19	+ 1.88	2.51	0.0	12	14	14	2	n.	H. A. Buerkle.					
Texarkana.	Miller.	332	28	77.4	- 1.2	95 2	59 12	29	4.46	+ 0.96	1.30	0.0	8				s.	F. F. Quinn.					
Warren.	Bradley.	304	15	75.8	- 2.6	96 18 ^c	55 12	33	4.61	+ 0.28	1.22	0.0	9				s.	W. J. Savage.					
Whitecliffs.	Little River.	206	6							1.01		0.28	0.0	8				John E. Payton.					
Wiggs.	Garland.	17		73.8	- 2.3	95 19 ^c	49 12	34	4.24	- 0.20	1.35	0.0	13	7	23	0	s.	S. D. Jester.					
Wynne.	Cross.	2		73.9		95 20	53 12	33	3.98		2.21	0.0	11				s.	R. R. Poole.					
Anguilla.	Sharkey.	107	2	76.4		96 18	56 15	33	7.10		2.00	0.0	12	8	6	16	ne.	E. W. Cook.					
Austin.	Tunica.	200	14	74.2	- 3.1	93 18	55 12	35	4.11	+ 0.16	1.89	0.0	10	13	13	4	ne.	H. J. Irvine.					
Batesville.	Panola.	230	22	74.1	- 3.9	92 17	56 1	32	6.08	+ 2.03	2.87	0.0	9	12	5	13	e.	J. M. Cox.					
Byhalia.	Marshall.	390	1								3.87		1.00	0.0	7	11	17	3	sw.	Tallahatchie Drng. Com.			
Canton.	Madison.	220	20	76.0	- 2.6	93 8 ^c	57 1	32	4.14	+ 0.03	1.90	0.0	11	8	18	4	sw.						

TABLE I.—Climatological data for June, 1910. District No. 7—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Mississippi—Cont'd.</i>																				
Tchula.	Holmes.	130	5	75.8	.....	94	18	55	14†	36	4.35	.....	1.75	0.0	7	12	9	9	w.
University.	LaFayette.	503	17	74.8	- 1.7	93	18	51	15	34†	.....	.....	0.0	9	9	5	7	1	n.
Utica.	Hinds.	287	6	76.4	.....	95	3	54	1	32	4.47	.....	1.40	0.0	9	7	10	13	se.
Vicksburg.	Warren.	247	39	76.3	- 2.2	91	8	60	2	26	3.82	- 0.67	1.22	0.0	12	13	10	7	s.	
Water Valley.	Yalobusha.	300	21	74.8	- 2.7	94	18	55	1	33	8.38	+ 3.35	2.17	0.0	11	17	5	6	ne.	
Woodville.	Wilkinson.	560	17	76.4	- 3.5	93	19	58	1	28	9.37	+ 4.92	2.55	0.0	13	17	7	6	se.	
Yazoo City.	Yazoo.	116	16	75.8	- 4.2	92	2	55	1	31	5.88	+ 1.61	1.52	0.0	13	11	5	14	ne.	
<i>Louisiana.</i>																				
Abbeville.	Vermilion.	18	22	70.0	- 0.9	97	19	63	1†	29	10.11	+ 4.26	2.25	0.0	13	16	7	7	sw.	
Alexandria.	Rapides.	77	19	77.4	- 2.3	98	19	55	15	35	6.56	+ 1.21	2.00	0.0	9	13	6	11	s.	
Amite.	Tangipahoa.	130	22	77.8	- 1.9	95	3†	50	1	33	11.14	+ 5.78	4.00	0.0	12	7	22	1	se.	
Baton Rouge.	E. Baton Rouge.	35	22	80.0	+ 0.3	94	18	66	12	23	4.87	0.00	1.29	0.0	9	16	3	11	sw.	
Burnside.	Ascension.	20	10	78.1	- 1.2	93	19†	59	2	31	8.41	+ 2.61	1.95	0.0	10	14	6	10	...	
Burwood.	Plaquemines.	1	20	79.8	- 0.5	92	19†	60	2	17	6.27	+ 2.51	2.35	0.0	7	10	4	4	sw.	
Calhoun.	Ouachita.	180	17	76.3	- 2.3	95	18†	55	13	33	5.98	+ 2.46	2.41	0.0	13	11	14	5	s.	
Cameron.	Cameron.	6	15	77.2	- 3.5	89	15	63	1	25	8.41	+ 3.21	2.35	0.0	8	16	9	9	se.	
Cheneyville.	Rapides.	67	20	78.1	- 2.4	98	19	56	15	37	6.95	+ 1.85	2.75	0.0	8	16	5	9	w.	
Clinton.	East Feliciana.	113	20	76.6	- 2.4	92	18†	58	1	28	8.01	+ 2.05	3.48	0.0	13	12	7	11	n.	
Collinston.	Morehouse.	65	8	77.8	.....	98	30	55 ^a	2	38	8.55	.....	2.00	0.0	10	15	8	7	...
Covington.	St. Tammany.	39	17	83.6	+ 3.7	95	7	60	1	32	4.77	- 0.61	1.57	0.0	16	15	7	8	s.	
Dodson.	Winn.	1	77.2	96	0†	55	12	31	5.74	.....	1.41	0.0	0	11	15	9	6	s.	
Donaldsonville.	Ascension.	33	20	79.7	- 0.1	94	20	66	2	24	10.42	+ 4.71	2.00	0.0	13	17	5	8	e.	
Farmerville.	Union.	177	20	75.6 ^b	- 3.6	91	2†	56 ^b	12	28	9.12	+ 5.15	3.39	0.0	9	14	12	4	s.	
Ferriday.	Concordia.	3	76.4	94 ^b	8	56 ^b	1†	33	7.22	.....	1.17	0.0	0	11	19	5	6	s.	
Franklin.	St. Mary.	10	18	79.2	- 1.8	94	18†	64	1†	29	8.57	+ 2.76	1.85	0.0	11	15	6	9	s.	
Grand Cane.	De Soto.	302	4	77.7	- 1.5	96	18†	55	13	33	6.32	.....	1.64	0.0	8	12	2	16	s.
Grand Coteau.	St. Landry.	93	23	77.8	- 1.8	95	19	60	1†	30	8.93	+ 2.61	2.35	0.0	11	18	9	3	s.	
Hammond.	Tangipahoa.	44	15	78.5	- 1.5	97	19	53	1	39	9.71	+ 4.15	2.75	0.0	10	16	12	2	sw.	
Houma.	Terrebonne.	19	78.4	95	19†	57	2	35	4.40	.....	1.35	1.70	0.0	8	16	0	14	sw.	
Jennings.	Calcasieu.	30	12	78.3	- 2.0	95	18†	62	15	27	7.63	+ 2.75	3.02	0.0	11	7	15	8	se.	
Lafayette.	Lafayette.	36	21	77.6	- 2.4	92	19†	61	1	25	8.62	+ 2.14	2.00	0.0	13	15	3	12	e.	
Lake Charles.	Calcasieu.	23	22	77.8	- 2.1	96	19	56	13	36	10.11	+ 4.09	3.85	0.0	11	18	4	8	sw.	
Lakeside.	Cameron.	9	78.5	94	1†	65	1†	29	15.03	.....	4.00	0.0	0	11	10	0	20	sw.	
Lawrence.	Plaquemines.	6	18	80.3	- 0.9	99	19	64	2	31	7.24	+ 1.65	3.09	0.0	12	13	4	4	s.	
Liberty Hill.	Bienvenue.	23	80.4	+ 0.5	100	18	58	13	30	5.39	+ 0.59	1.08	0.0	10	13	4	4	...		
Logansport.	De Soto.	192	6	77.1	.....	98	29	58	1†	33	3.78	.....	2.00	0.0	4	5	13	5	s.
Melville.	St. Landry.	45	21	77.1	- 2.0	98	29	58	1†	33	6.62	+ 2.36	1.40	0.0	12	17	7	6	s.	
Minden.	Webster.	104	18	75.6	- 4.1	97	8†	52	12†	38	5.60	+ 1.51	1.39	0.0	12	17	8	5	n.	
Monroe.	Ouachita.	82	22	78.6	- 1.1	95 ^a	2†	60 ^b	12	30 ^b	4.29	+ 0.20	1.70	0.0	11	17	5	8	n.	
Morgan City.	St. Mary.	14	5	76.6	.....	94	18	56	1	33	8.76	.....	2.58	0.0	10	19	4	7	s.
Newellton.	Tensas.	3	76.6	94	18	56	1	33	8.76	.....	2.43	0.0	10	7	22	1	...	...
New Iberia.	Iberia.	15	20	70.0	- 1.0	91	0†	65	15	22	8.04	+ 1.58	2.60	0.0	10	8	19	3	se.	
New Orleans (1).	Orleans.	51	40	79.2	- 0.4	92	19	65	10	23	9.46	+ 3.30	3.47	0.0	14	12	4	13	s.	
New Orleans (2).	do.	18	21	79.2	- 1.5	94	19†	60	19	34	5.61	- 0.71	2.14	0.0	12	13	4	13	...	
Opelousas.	St. Landry.	83	18	78.4	- 1.9	96	17†	60	1	31	7.04	+ 1.70	3.21	0.0	11	16	9	5	se.	
Plain Dealing.	Bossier.	263	18	77.3	- 1.1	100	19	53	13	37	5.05	+ 0.08	1.92	0.0	12	12	11	7	se.	
Rayne.	Acadia.	44	18	78.8	- 1.8	95	19	63	1†	28	8.75	+ 2.87	3.00	0.0	11	16	3	11	s.	
Reserve.	St. John Baptist.	8	.....	.....	.....	.....	.....	.....	.....	9.06	+ 4.93	2.24	0.0	11	7	12	11	...	...
Robeline.	Natchitoches.	147	13	76.4	- 2.6	98	8†	51	13†	40	4.65	+ 1.19	1.98	0.0	7	18	5	7	n.	
Ruston.	Lincoln.	312	13	77.4	- 1.4	95 ^a	18†	57 ^a	14	32 ^a	5.62	+ 1.66	1.50	0.0	9	16	9	5	n.	
St. Francisville.	West Feliciana.	115	6	77.8	.....	94	18†	60	1	28	6.95	.....	2.50	0.0	6	22	1	7	n.
Schriever.	Terrebonne.	17	17	78.2	- 2.1	94	8†	59	2	33	6.08	- 0.62	1.84	0.0	12	24	1	5	e.	
Shreveport.	Caddo.	249	39	77.6	- 2.0	95	19	60	12	27	4.84	+ 1.26	2.30	0.0	7	14	12	4	se.	
Simmesport.	Avoyelles.	5	.....	.....	.....	.....	.....	.....	.....	8.11	.....	5.12	0.0	9	13	7	11	s.	
Southern Univ. Farm.	Jefferson.	15	.....	.....	.....	.....	.....	.....	.....	4.91	- 0.37	1.38	0.0	9	8	14	8	se.	
Sugartown.	Calcasieu.	17	79.0	- 1.0	94	19	60	15	30	3.99	- 0.61	1.60	0.0	5	5	25	0	....	...
Tallulah.	Madison.	91	2	76.0	94 ^a	2†	54 ^a	1†	34 ^a	5.69	2.40	0.0	11	5	34	1

^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

* Precipitation included in that of the next measurement.

** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.

† Also on other dates.

‡ Separate dates of falls not recorded.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

|| Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Estimated by observer.

II Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

60—6

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F. L. St. Martin.
G. W. Richardson.
C. E. Speed.

TABLE 2—*Daily precipitation for June, 1910. District No. 7, Lower Mississippi Valley.*

TABLE 2.—*Daily precipitation for June, 1910. District No. 7—Continued.*

TABLE 2.—*Daily precipitation for June, 1910. District No. 7—Continued.*

Stations.	River basins.	Day of month.																													Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Oklahoma—Cont'd.																																	
Hurley	Canadian	T.	T.																														T.
Idabel	Red	.04																															1.29
Jefferson	Arkansas																																0.68
Kenton	Cimarron																																2.42
Kingfisher	do																																1.58
McAlester	Canadian	.03																															1.04
McComb	do																																1.04
Mangum||	Red																																0.12
Marlow||	Washita																																0.45
Mesker	Canadian																																1.53
Muskogee	Arkansas																																1.00
Mutual	Canadian																																0.88
Neola	Washita																																1.82
Newkirk	Arkansas	.40																															1.82
Norman	Canadian																																1.82
Oakwood	do																																2.34
Okeene	Cimarron	T.	.02																													2.34	
Oklahoma	Canadian																															1.09	
Omulgee	do																															1.55	
Pauls Valley																																1.05	
Pawhuska	Arkansas	.19																														2.21	
Perry	do																															1.27	
Ravia	Washita	.06																														0.36	
Sac & Fox Agency	Canadian	.04																														0.69	
Shawnee||	Red																															1.02	
Stillwater||	Cimarron																															1.05	
Supply	Canadian																															3.09	
Tulsa (1)||	Arkansas	.17																														3.22	
Vinita	do																															1.50	
Wagoner		.05																														1.57	
Waukomis	Cimarron																															1.17	
Waurika	Red	.05																														2.11	
Weatherford||	Canadian																															1.51	
Webers Falls	Arkansas	.05																														1.30	
Whiteagle	do																															1.55	
Woodward	Canadian																															1.17	
<i>Missouri</i>																																	
Belle	Meramec	T.	2.45	.08																												5.95	
Birchtree	Black		2.40																													6.42	
Cape Girardeau||	Mississippi		.52																													4.43	
Caruthersville	do																															2.92	
Dean	Neosho	T.	.05	.03																												5.39	
Doniphan	Black	T.	.55	.03	.15																											3.01	
Farmington	Mississippi																																
Gano	Meramec		.11	.12																												5.15	
Goodland	Black		.20																													3.98	
Greenville	Mississippi	T.	.05	T.																												2.62	
Hollister	White																																
Ironton||	Mississippi	T.																														3.62	
Jackson	do	.03																														2.62	
Joplin			.10	.42																												3.94	
Koshkonong	Black	T.	.02	.26	T.																											9.01	
Lamar||	Neosho	T.	.04	T.	.49	.15																										4.04	
Marble Hill	Mississippi																																
Mountaingrove	White																															4.85	
Mount Vernon	Neosho																																
Neosho	do																																
New Madrid||	Mississippi																															5.79	
Oakfield	Meramec	T.	.09	.14	.17	.02																									4.46		
Olden	White																															4.70	
Perryville	Mississippi																																
Rolla	Meramec	T.	1.52	.19																												8.26	
Sikeston	Mississippi	T.	1.30																													4.65	
Springfield	White	T.	.01	.02																												2.56	
Steelville	Meramec	T.	T.	.16	.07	T.																										4.56	
Willow Springs	White																																
<i>Kentucky</i>																																	

TABLE 2.—*Daily precipitation for June, 1910. District No. 7—Continued.*

TABLE 2.—*Daily precipitation for June, 1910. District No. 7—Continued.*

TABLE 3.—*Maximum and minimum temperatures at selected stations, June, 1910.* District No. 7, Lower Mississippi Valley.

Oklahoma.

Missouri.

Date.	End. §§	McAlester.	Mangum. §§	Oklahoma.	Weatherford. §§	Woodward.	Caruthersville.	Ironton. §§	Lamar. §§	Olden.	Springfield.	Lynnyville, Ky.	Jackson, Tenn.														
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.														
1.	80	60	84	63	92	57	91	61	81	63	53	59	82	51	82	53	77	53	75	57	75	54	70	56	79	50	
2.	92	56	97	62	.....	56	93	65	97	57	96	56	91	52	84	50	77	42	81	58	83	77	56	72	48	.....
3.	89	63	94	70	.....	65	90	63	93	71	95	58	78	54	70	52	61	47	59	73	54	63	57	67	49	.....
4.	76	57	90	75	87	61	89	63	76	59	84	59	76	54	78	60	73	51	78	56	79	55	71	53	73	57	.....
5.	84	53	82	62	87	57	79	60	79	59	83	57	82	50	76	65	73	60	75	56	75	61	71	56	76	65	.....
6.	80	61	77	60	88	63	77	62	76	60	75	61	80	62	84	52	78	43	73	58	77	55	71	57	82	53	.....
7.	86	63	89	65	92	64	82	60	83	63	86	61	89	62	86	60	73	47	64	59	70	55	62	56	76	57	.....
8.	95	65	93	73	104	67	98	61	90	72	98	64	97	65	77	60	71	50	76	57	67	54	71	53	78	59	.....
9.	85	66	83	74	88	64	80	62	80	66	82	69	84	66	70	58	70	51	74	57	67	55	66	58	74	61	.....
10.	72	59	78	60	78	62	76	59	69	59	73	56	75	57	76	60	66	52	71	57	70	55	66	58	77	60	.....
11.	82	51	80	58	81	53	83	52	75	55	77	52	78	44	77	58	78	50	78	49	75	51	74	51	78	57	.....
12.	84	48	83	50	85	50	83	52	78	53	80	48	80	48	80	51	80	41	82	49	73	52	74	57	82	50	.....
13.	82	56	80	54	78	59	80	60	80	61	97	58	77	57	80	58	83	44	83	53	80	55	78	57	83	53	.....
14.	91	53	83	53	88	52	84	62	83	60	85	51	86	49	87	53	85	50	84	54	83	53	80	59	86	53	.....
15.	90	58	89	58	92	55	85	52	86	62	86	59	88	60	86	57	86	52	85	58	85	57	81	58	88	56	.....
16.	95	61	91	64	94	60	89	52	88	64	91	62	92	64	90	55	88	52	86	63	83	60	82	63	91	56	.....
17.	98	61	93	69	100	63	92	67	92	63	95	66	96	61	91	60	87	53	90	64	85	65	65	64	91	59	.....
18.	102	70	97	75	103	70	93	74	96	75	99	70	100	62	92	63	89	57	93	69	82	66	81	67	91	62	.....
19.	103	68	99	74	103	66	93	70	95	70	99	79	99	65	92	64	93	57	93	69	91	62	66	67	94	63	.....
20.	98	68	98	71	103	67	95	73	93	70	98	69	100	67	96	67	94	56	96	67	91	65	91	72	96	63	.....
21.	104	66	101	69	104	66	99	70	96	69	101	69	100	73	88	66	91	63	94	66	90	66	86	69	88	66	.....
22.	106	68	99	68	105	60	97	70	97	71	102	69	102	69	90	66	91	60	91	69	85	63	83	68	89	65	.....
23.	102	73	90	66	104	68	93	68	92	69	100	68	100	67	90	65	91	60	91	67	83	62	84	68	92	67	.....
24.	98	68	93	68	104	67	90	69	92	71	96	71	97	76	93	65	93	62	90	67	88	65	87	67	95	67	.....
25.	96	67	92	67	96	71	91	66	89	67	93	69	94	66	92	67	93	65	93	65	87	66	88	67	91	66	.....
26.	99	68	91	68	94	63	91	69	91	69	95	66	92	64	94	70	92	63	89	67	89	65	85	67	91	70	.....
27.	95	68	93	69	95	63	90	62	92	69	93	69	91	64	94	68	88	65	89	68	86	65	84	69	92	69	.....
28.	95	68	92	70	93	69	91	68	90	71	92	68	91	64	86	69	84	68	86	67	82	80	87	68	89	68	.....
29.	98	67	93	69	98	69	91	70	93	69	98	68	90	66	86	69	88	66	90	60	86	61	84	65	88	65	.....
30.	98	67	92	68	89	68	80	66	90	70	89	67	87	67	90	68	90	60	90	64	88	65	85	68	90	67	.....
31.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	91.8	62.5	89.8	65.7	93.7 ^b	63.0	87.9	63.8	87.1	65.4	89.7	64.3	89.1	60.8	84.9	61.0	82.7	54.3	83.6	61.0	81.1	59.3	78.2	61.6	84.6	60.0	.....

MONTHLY WEATHER REVIEW.

JUNE, 1910

TABLE 3.—Maximum and minimum temperatures at selected stations, June, 1910. District No. 7—Continued.

Date.	Tennessee.				Arkansas.																Mississippi.																															
	Memphis.		Union City		Bentonville.				Corning.				Dardanelle.				Eldorado.				Fort Smith.				Little Rock.				Pine Bluff.				Texarkana.				Wynne.				Clarkdale.				Corinth.				Greenville.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.											
1.	76	62	80	57	73	55	73	58	81	59	87	61	82	61	82	77	81	65	82	60	89	61	79	56	80	59	88	54	83	53	83	54	85	59	85	59	85	59	85	59												
2.	81	65	76	51	86	57	79	55	83	59	93	67	94	61	94	89	95	66	95	61	91	63	91	64	92	60	92	62	93	64	93	64	93	64	93	64	93	64	93	64												
3.	72	62	70	53	85	63	76	56	84	61	91	68	91	63	91	86	92	68	92	66	90	70	74	62	86	60	89	60	89	60	89	60	89	60	89	60	89	60	89	60	89	60										
4.	83	64	75	57	85	62	72	58	91	64	93	72	88	65	88	81	85	66	85	68	80	72	86	62	86	60	89	60	89	60	89	60	89	60	89	60	89	60	89	60	89	60										
5.	77	65	77	65	75	58	78	64	79	64	84	68	88	63	88	77	82	66	85	68	80	67	81	67	85	66	88	66	88	66	88	66	88	66	88	66	88	66	88	66												
6.	80	62	84	53	73	58	80	62	83	67	87	65	78	63	83	81	84	64	86	65	88	67	85	60	88	58	84	62	84	62	84	62	84	62	84	62	84	62	84	62	84	62										
7.	79	65	80	58	67	62	74	61	80	64	88	68	77	67	87	81	85	67	88	69	90	70	81	63	86	62	81	62	81	62	81	62	81	62	81	62	81	62	81	62	81	62										
8.	75	60	59	50	80	62	74	59	82	64	90	68	84	65	85	79	81	63	85	65	89	72	80	61	84	63	86	62	84	62	84	62	84	62	84	62	84	62	84	62	84	62										
9.	73	60	72	61	74	62	74	59	84	65	87	70	80	63	83	79	81	61	85	65	89	72	80	60	83	62	82	62	82	62	82	62	82	62	82	62	82	62	82	62	82	62										
10.	74	61	73	61	70	58	72	57	76	60	80	63	70	63	70	74	79	60	80	63	85	65	88	65	87	60	80	62	87	62	87	62	87	62	87	62	87	62	87	62												
11.	74	59	80	60	72	53	77	56	76	59	77	60	77	61	75	61	80	58	78	61	77	58	74	62	72	60	77	63	77	63	77	63	77	63	77	63	77	63	77	63												
12.	79	60	85	52	77	52	79	51	81	53	81	56	81	54	81	78	59	82	55	89	59	81	53	81	58	80	58	82	58	82	58	82	58	82	58	82	58	82	58	82	58											
13.	79	63	86	56	78	55	80	55	81	55	83	56	83	54	84	82	84	61	87	58	83	59	81	55	82	56	84	56	87	59	84	56	87	59	84	56	87	59	84	56	87	59										
14.	81	61	86	54	80	51	83	55	83	55	83	56	84	54	84	82	84	61	87	58	84	60	84	56	85	56	84	56	87	59	84	56	87	59	84	56	87	59	84	56	87	59										
15.	83	63	91	53	83	54	86	58	86	59	87	59	85	60	85	85	64	86	59	86	60	87	57	88	60	86	60	87	60	87	60	87	60	87	60	87	60	87	60	87	60	87	60									
16.	87	66	94	57	84	60	88	58	87	60	90	60	88	67	87	83	87	64	90	60	88	63	90	58	90	61	90	59	90	61	90	59	90	61	90	59	90	61	90	59	90	61										
17.	87	68	94	58	86	62	88	61	90	64	92	66	90	63	92	88	90	66	92	61	92	62	92	62	92	62	92	62	92	62	92	62	92	62	92	62	92	62	92	62	92	62										
18.	88	70	92	64	86	66	88	67	91	63	94	72	97	70	93	89	90	70	92	66	93	67	94	66	94	66	94	66	94	66	94	66	94	66	94	66	94	66	94	66	94	66										
19.	83	69	96	65	88	67	91	63	93	66	93	74	93	70	93	90	91	70	93	67	94	73	93	66	94	70	93	67	94	70	93	67	94	70	93	67	94	70	93	67	94	70										
20.	80	69	97	67	90	70	94	67	92	68	93	72	98	68	93	90	91	70	98	67	97	75	98	66	97	70	98	66	97	70	98	66	97	70	98	66	97	70	98	66	97	70										
21.	85	70	90	69	91	64	90	66	92	70	93	72	95	70	93	90	92	72	95	68	94	70	94	66	94	70	94	66	94	70	94	66	94	70	94	66	94	70	94	66	94	70										
22.	85	72	92	68	93	67	91	68	93	70	95	72	97	70	95	92	94	70	97	68	95	70	96	66	95	70	96	66	95	70	96	66	95	70	96	66	95	70	96	66	95	70										
23.	85	72	88	68	82	63	88	67	86	70	88	72	87	70	88	85	87	70	88	66	88	70	87	66	88	70	87	66	88	70	87	66	88	70	87	66	88	70	87	66	88	70										
24.	86	70	95	67	98	78	94	89	98	72	96	86	98	76	96	93	95	72	96	67	98	71	97	66	98	70	97	66	98	70	97	66	98	70	97	66	98	70	97	66	98	70										
25.	88	71	92	67	98	70	94	68	98	72	96	88	98	70	96	93	95	72	96	67	98	71	97	66	98	70	97	66	98	70	97	66	98	70	97	66	98	70	97	66	98	70										
26.	86	67	90	69	90	66	88	69	90	73	90	67	84	70	95	90	92	70	95	64	90	66	88	71	90	68	92	66	88	71	90	68	92	66	88	71	90	68	92	66	88	71										
27.	86	69	91	70	88	70	87	71	86	74	86	70	87	72	87	90	92	72	87	65	92	74	85	70	88	71	89	70	88	71	89	70	88	71	89	70	88	71	89	70	88	71										
28.	83	69	86	70	84	71	82	71	82	76	84	75	85	68	88	71	88	71	88	67	90	72	84	71	88	72	84	71	88	72	84	71	88	72	84	71	88	72	84	71	88	72										
29.	82	69	89	71	90	70	84	71	84	71	88	71	88	73	88	71	88	71	88	65	90	74	85	71	88	72	84	71	88	72	84	71	88	72	84	71	88	72	84	71	88	72										
30.	85	68	91	72	86	70	90	70	89	73	92	71	90	69	91	71	90	68	92	71	92	74	94	64	91	71	92	68	90	71	92	68	90	71	92	68	90	71	92	68	90	71										
31.	Means.....	84.6	63.8	89.6	67.2	85.6	67.0	89.2	65.7	88.2	71.9	90.4	66.9	86.8	68.4	92.3	63.2	89.5 ^a	67.6 ^b	87.5	70.9	89.1	63.6	90.6	65.8	87.6	67.5	87.7	65.6	87.7	65.6																					